tially group by group. Within the groups scale factor band interleaving is performed.

This may be demonstrated by the following example. Here there has been grouping into three groups. The first group contains two windows, the second group contains three windows and the third group also contains three windows. Each spectrum has 12 scale factor bands. The grouping is then as follows:

```
1st group, 1st window, 1st scale factor band

1st group, 2nd window, 1st scale factor band

1st group, 1st window, 2nd scale factor band

1st group, 2nd window, 2nd scale factor band

1st group, 2nd window, 12th scale factor band

2nd group, 3nd window, 1st scale factor band

2nd group, 4th window, 1st scale factor band

2nd group, 5th window, 1st scale factor band

2nd group, 3nd window, 2nd scale factor band
```

This arrangement is not suitable for presorting or inserting code words from the sort table in the raster, since if sequential insertion is employed the complete spectrum of the first group would be protected but the spectrum of the last group would be completely unprotected. For this reason a presorting according to the second aspect of the present invention is carried out for short windows. In the case of the AAC standard the grouping and the scale factor band approach are abandoned. A new presorting is performed, this time in units of spectral lines.

In a preferred embodiment of the present invention each unit contains 4 spectral lines. In the AAC standard each window

therefore contains 32 units, corresponding to 128 spectral lines. The spectral data are arranged as follows:

```
1<sup>st</sup> window, 1<sup>st</sup> unit
2<sup>nd</sup> window, 1<sup>st</sup> unit
...
8<sup>th</sup> window, 1<sup>st</sup> unit
1<sup>st</sup> window, 2<sup>nd</sup> unit
2<sup>nd</sup> window, 2<sup>nd</sup> unit
...
8<sup>th</sup> window, 2<sup>nd</sup> unit
1<sup>st</sup> window, 3<sup>rd</sup> unit
```

This presorting ensures that the individual spectral regions of all the windows lie near one another, i.e. that low spectral values are written according to frequency from the individual sets of spectral values into the front area of the sort table before the spectral values with higher frequency. If the spectral values in the lower spectral region are particularly important psychoacoustically, the cited presorting in the sort table provides the basis for inserting the spectral values from the sort table into the raster. With this presorting of the code words, i.e. determining the priority code words, there is no need to transmit any additional information since the decoder knows from the side information that short windows were used in this block or frame and the sort algorithm in the coder for generating the units is always fixed and is thus permanently programmed in the decoder.

It is important to note that the presorting of code words into a sort table corresponds to determining the priority code words since this table in itself determines which code words can, with a high degree of probability, be written to raster points since the code words which can, with a high degree of

probability, be positioned on raster points, i.e. the priority code words, are those code words at the beginning, i.e. at the front or upper region, of the sort table.

Other than in the preferred embodiment this presorting is not performed by means of a sort table but by indexing the individual code words so as to specify the sequence in which the indexed code words are to be written into the bit stream.

From the AAC standard it is known that some code tables are two dimensional or four dimensional, i.e. that a code word codes two or four spectral values. It is therefore advantageous to group four spectral lines or a multiple thereof into a unit, since in this way code words which code the same frequency region can be sorted in direct succession to one another. The number of spectral lines from a unit is thus preferably divisible by the different dimensions of the code tables, i.e. the number of lines per unit must be a common multiple of the number of lines per code word and optimally the lowest common multiple.

The present invention becomes particularly efficient when the first and second aspects are combined. If resorting into units according to the present invention has been performed for short windows, this can be followed by priority code word determination by means of the code table indicator in which the result of unit resorting is resorted again to ensure that the code words from higher code tables become priority code words which are positioned on fixed raster points so as to achieve a high degree of error security. This combination is not absolutely necessary, but it leads to the best results.